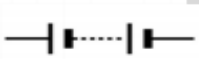
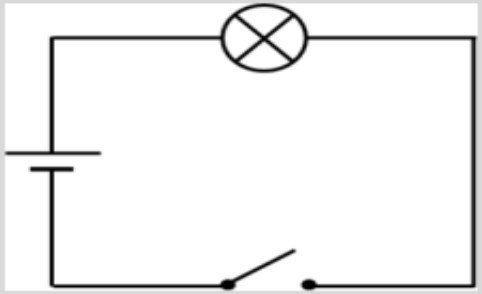
Year 4 – Electricity

Electrical circuit symbols

	lamp (indicator)
	lamp (lighting)
	wire
	motor
	buzzer
	open switch
	closed switch
	cell
	battery

A scientific diagram of an open circuit:



The light bulb will not light in this circuit until the switch is closed.

Common electrical hazards

1. Overloading a plug extension socket.
2. Exposed wires.
3. Damaged wall sockets.
4. Wires left along the carpet for people to trip over.
5. Placing metal into electrical appliances or open sockets.
6. Electrical appliances and wires near water.

NOTE: WATER IS AN EXCELLENT ELECTRICAL CONDUCTOR SO IT CAN BE VERY DANGEROUS TO HAVE ELECTRICAL DEVICES NEAR WATER

I can identify some common appliances that run on electricity

Vocabulary Dozen

electricity	Energy caused by the moement of electrons through matter
Series circuit	A closed circuit in which the current follows one path
conductor	Anything that carries or allows passage of heat, electricity or sound
insulator	A material that does not conduct electricity
cell	A device that makes electricity by chemical means
switch	A device that opens and closes an electrical circuit
buzzer	An electrical device that signals by buzzing
bulb	A device made of rounded glass used to create electric light
appliance	A service used for a particular purpose e.g. stoves and fridges are home appliances.
Mains electricity	Electricity supply from power stations to households.
batteries	A device that makes electricity by using chemical reastions
Power source	It supplies electrical power to at least one electric item.

Electrical Conductors	Electrical Insulators
Copper	Rubber
Iron	Wood
Steel	Plastic
Silver	Paper
Gold	

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